1 Identification

1.1 Product identifier
- Trade name: AFCONA - 4597
- Application of the substance / the mixture: Paint Additives

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Haiman AFCONA Chemicals Co., Ltd
  29, Daling Road, Qing-Long Chemical Industrial Park,
  Haimen, Jiangsu Province, 226121, P.R.China
  Tel: +82-513-82658995
- Information department: Product safety department.
- Emergency telephone number:
  For Hazardous Materials [or Dangerous Goods] Incident
  Spill, Leak, Fire, Exposure, or Accident
  Call CHEMTREC Day or Night
  Within USA and Canada: 1-800-424-9300 CCN796211 or
  +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  The product is not classified according to the CLP regulation.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  Void
- Hazard pictograms: Void
- Signal word: Void
- Hazard statements: Void
- Classification system:
  - NFPA ratings (scale 0 - 4)
    Health = 0
    Fire = 1
    Reactivity = 0

  - HMIS-ratings (scale 0 - 4)
    HEALTH
    Health = 0
    Fire = 1
    Reactivity = 0

2.3 Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)
4 First-aid measures

4.1 Description of first aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing agents: Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

- Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

- Dilute with plenty of water.
- Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

- Protective Action Criteria for Chemicals

PAC-1:

None of the ingredients is listed.

PAC-2:

None of the ingredients is listed.

PAC-3:

None of the ingredients is listed.

7 Handling and storage

7.1 Precautions for safe handling

- No special measures required.
- Keep receptacles tightly sealed.

- Information about protection against explosions and fires: No special measures required.
7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- 8.1 Control parameters
  - Components with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be
    monitored at the workplace.
  - Additional information: The lists that were valid during the creation were used as basis.
- 8.2 Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      The usual precautionary measures for handling chemicals should be followed.
    - Breathing equipment: Not required.
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/
    the chemical mixture.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the
    degradation
  - Material of gloves
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality
    and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the
    resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the
    application.
  - Penetration time of glove material
    The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be
    observed.
  - Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Fluid
      - Color: According to product specification
      - Odor: Characteristic
      - Odor threshold: Not determined.
    - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: 100 °C (212 °F)
  - Flash point: >100 °C (>212 °F)
### 4.0 Flammability (solid, gaseous):
Not applicable.

### 4.1 Ignition temperature:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting</td>
<td>Product is not selfigniting.</td>
</tr>
</tbody>
</table>

### 4.2 Danger of explosion:
Product does not present an explosion hazard.

#### 4.2.1 Explosion limits:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

### 4.3 Vapor pressure at 20 °C (68 °F):
23 hPa (17 mm Hg)

### 4.4 Density:
Not determined.

### 4.5 Relative density
Not determined.

### 4.6 Vapor density
Not determined.

### 4.7 Evaporation rate
Not determined.

### 4.8 Solubility in / Miscibility with

<table>
<thead>
<tr>
<th>Substance</th>
<th>Solubility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Fully miscible.</td>
</tr>
</tbody>
</table>

### 4.9 Partition coefficient (n-octanol/water):
Not determined.

### 4.10 Viscosity:

<table>
<thead>
<tr>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

### 4.11 Solvent content:

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic solvents</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Water</td>
<td>59.0 %</td>
</tr>
<tr>
<td>VOC content</td>
<td>1.0 %</td>
</tr>
<tr>
<td></td>
<td>24.4 g/l / 0.20 lb/gl</td>
</tr>
</tbody>
</table>

### 4.12 Solids content:
40.0 %

### 9.2 Other information
No further relevant information available.

### 10 Stability and reactivity

<table>
<thead>
<tr>
<th>Section</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1 Reactivity</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>10.2 Chemical stability</td>
<td></td>
</tr>
<tr>
<td>10.3 Possibility of hazardous reactions</td>
<td>No dangerous reactions known.</td>
</tr>
<tr>
<td>10.4 Conditions to avoid</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>10.5 Incompatible materials</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>10.6 Hazardous decomposition products</td>
<td>No dangerous decomposition products known.</td>
</tr>
</tbody>
</table>

### 11 Toxicological information

<table>
<thead>
<tr>
<th>Section</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.1 Information on toxicological effects</td>
<td></td>
</tr>
<tr>
<td>11.2 Acute toxicity</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>11.3 Primary irritant effect:</td>
<td></td>
</tr>
<tr>
<td>on the skin</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>on the eye</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
</tbody>
</table>
44.0 Additional toxicological information:

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

12 Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
  - 12.2 Persistence and degradability: No further relevant information available.
  - 12.3 Bioaccumulative potential: No further relevant information available.
  - 12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

- General notes:
  Water hazard class 1 (Self-assessment): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

- 12.6 Other adverse effects: No further relevant information available.

13 Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation: Smaller quantities can be disposed of with household waste.

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

  - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- 14.1 UN-Number
  - DOT, ADR, ADN, IMDG, IATA: Void

- 14.2 UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA: Void

- 14.3 Transport hazard classes
  - DOT, ADR, ADN, IMDG, IATA: Void

- 14.4 Packing group
  - DOT, ADR, IMDG, IATA: Void

- 14.5 Environmental hazards:
  - Marine pollutant: No
14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

UN "Model Regulation": Void

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Sara
  - Section 355 (extremely hazardous substances):
    None of the ingredient is listed.
  - Section 313 (Specific toxic chemical listings):
    None of the ingredients is listed.
  - TSCA (Toxic Substances Control Act):
    Not all ingredients are TSCA listed, only below Ingredient/s is/are listed
    7732-18-5 water, distilled, conductivity or of similar purity
  - Proposition 65
    - Chemicals known to cause cancer:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for females:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for males:
      None of the ingredients is listed.
    - Chemicals known to cause developmental toxicity:
      None of the ingredients is listed.

- Cancerogenity categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Product safety department.
- Contact: Mr. Saw Eng Nee
- Date of preparation / last revision 01/20/2017 / -
- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association

(Contd. on page 7)